

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/5336324
Source: PCT
Date Processed by STIC: 5/12/5

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PCT

RAW SEQUENCE LISTING DATE: 05/12/2005
 PATENT APPLICATION: US/10/533,634 TIME: 09:44:23

Input Set : A:\379604.txt
 Output Set: N:\CRF4\05122005\J533634.raw

Pr6-7

3 <110> APPLICANT: THE UNITED STATES OF AMERICA AS REPRESENTED BY THE
 4 SECRETARY OF THE DEPARTMENT OF HEALTH AND HUMAN SERVICES
 5 Klinman, Dennis M.
 6 Ivins, Bruce
 7 Verthelyi, Daniela
 9 <120> TITLE OF INVENTION: METHOD OF PREVENTING INFECTIONS FROM BIOTERRORISM AGENTS

WITH

10 IMMUNOSTIMULATORY CpG OLIGONUCLEOTIDES
 12 <130> FILE REFERENCE: 4239-67021-06

C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/533,634
 C--> 14 <141> CURRENT FILING DATE: 2005-04-29

14 <150> PRIOR APPLICATION NUMBER: PCT/US2003/034523
 15 <151> PRIOR FILING DATE: 2003-10-31
 17 <150> PRIOR APPLICATION NUMBER: US 60/422,964
 18 <151> PRIOR FILING DATE: 2002-11-01
 20 <160> NUMBER OF SEQ ID NOS: 199
 22 <170> SOFTWARE: PatentIn version 3.2
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 20
 26 <212> TYPE: DNA
 27 <213> ORGANISM: Artificial sequence
 29 <220> FEATURE:
 30 <223> OTHER INFORMATION: CpG D oligonucleotide
 33 <220> FEATURE:
 34 <221> NAME/KEY: misc_feature
 35 <222> LOCATION: (1)..(2)
 36 <223> OTHER INFORMATION: n is any base, or no base at all
 38 <400> SEQUENCE: 1

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 45 <213> ORGANISM: Artificial sequence
 47 <220> FEATURE:
 48 <223> OTHER INFORMATION: CpG D oligonucleotide
 51 <220> FEATURE:
 52 <221> NAME/KEY: misc_feature
 53 <222> LOCATION: (1)..(2)
 54 <223> OTHER INFORMATION: n is any base, or no base at all
 56 <400> SEQUENCE: 2

W--> 57 nntgcacggg tgcagggggg 20
 60 <210> SEQ ID NO: 3
 61 <211> LENGTH: 20
 62 <212> TYPE: DNA

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63 <213> ORGANISM: Artificial sequence
65 <220> FEATURE:
66 <223> OTHER INFORMATION: CpG D oligonucleotide
69 <220> FEATURE:
70 <221> NAME/KEY: misc_feature
71 <222> LOCATION: (1)..(2)
72 <223> OTHER INFORMATION: n is any base, or no base at all
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78 <210> SEQ ID NO: 4
79 <211> LENGTH: 20
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81 <213> ORGANISM: Artificial sequence
83 <220> FEATURE:
84 <223> OTHER INFORMATION: CpG D oligonucleotide
87 <220> FEATURE:
88 <221> NAME/KEY: misc_feature
89 <222> LOCATION: (1)..(2)
90 <223> OTHER INFORMATION: n is any base, or no base at all
92 <400> SEQUENCE: 4
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102 <223> OTHER INFORMATION: CpG D oligonucleotide
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106 <221> NAME/KEY: misc_feature
107 <222> LOCATION: (1)..(2)
108 <223> OTHER INFORMATION: n is any base, or no base at all
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120 <223> OTHER INFORMATION: CpG D oligonucleotide
123 <220> FEATURE:
124 <221> NAME/KEY: misc_feature
125 <222> LOCATION: (1)..(2)
126 <223> OTHER INFORMATION: n is any base, or no base at all
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132 <210> SEQ ID NO: 7
133 <211> LENGTH: 20
134 <212> TYPE: DNA
135 <213> ORGANISM: Artificial sequence

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137 <220> FEATURE:
138 <223> OTHER INFORMATION: CpG D oligonucleotide
141 <220> FEATURE:
142 <221> NAME/KEY: misc_feature
143 <222> LOCATION: (1)..(2)
144 <223> OTHER INFORMATION: n is any base, or no base at all
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155 <220> FEATURE:
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159 <220> FEATURE:
160 <221> NAME/KEY: misc_feature
161 <222> LOCATION: (1)..(2)
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174 <223> OTHER INFORMATION: CpG D oligonucleotide
176 <400> SEQUENCE: 9
177 atcgat 6
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182 <212> TYPE: DNA
183 <213> ORGANISM: Artificial sequence
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194 <212> TYPE: DNA
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205 <211> LENGTH: 6
206 <212> TYPE: DNA
207 <213> ORGANISM: Artificial sequence
209 <220> FEATURE:

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213 accgat 6
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222 <223> OTHER INFORMATION: CpG D oligonucleotide
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225 gtcgac 6
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230 <212> TYPE: DNA
231 <213> ORGANISM: Artificial sequence
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236 <400> SEQUENCE: 14
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240 <210> SEQ ID NO: 15
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243 <213> ORGANISM: Artificial sequence
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246 <223> OTHER INFORMATION: CpG D oligonucleotide
248 <400> SEQUENCE: 15
249 ggtgcatcga tacagggggg 20
252 <210> SEQ ID NO: 16
253 <211> LENGTH: 20
254 <212> TYPE: DNA
255 <213> ORGANISM: Artificial sequence
257 <220> FEATURE:
258 <223> OTHER INFORMATION: CpG D oligonucleotide
260 <400> SEQUENCE: 16
261 ggtgcgtcga tgcagggggg 20
264 <210> SEQ ID NO: 17
265 <211> LENGTH: 15
266 <212> TYPE: DNA
267 <213> ORGANISM: Artificial sequence
269 <220> FEATURE:
270 <223> OTHER INFORMATION: CpG D oligonucleotide
272 <400> SEQUENCE: 17
273 gctagacgtt agcgt 15
276 <210> SEQ ID NO: 18
277 <211> LENGTH: 10
278 <212> TYPE: DNA
279 <213> ORGANISM: Artificial sequence
281 <220> FEATURE:
282 <223> OTHER INFORMATION: CpG D oligonucleotide

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Input Set : A:\379604.txt

Output Set: N:\CRF4\05122005\J533634.raw

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284 <400> SEQUENCE: 18
285 tcaacgttga 10
288 <210> SEQ ID NO: 19
289 <211> LENGTH: 15
290 <212> TYPE: DNA
291 <213> ORGANISM: Artificial sequence
293 <220> FEATURE:
294 <223> OTHER INFORMATION: Control D oligonucleotide
296 <400> SEQUENCE: 19
297 gctagagctt aggct 15
300 <210> SEQ ID NO: 20
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302 <212> TYPE: DNA
303 <213> ORGANISM: Artificial sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: Control D oligonucleotide
308 <400> SEQUENCE: 20
309 tcaagcttga 10
312 <210> SEQ ID NO: 21
313 <211> LENGTH: 20
314 <212> TYPE: DNA
315 <213> ORGANISM: Artificial sequence
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318 <223> OTHER INFORMATION: CpG D oligonucleotide
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321 ggtgcatcga tgcagggggg 20
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325 <211> LENGTH: 20
326 <212> TYPE: DNA
327 <213> ORGANISM: Artificial sequence
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330 <223> OTHER INFORMATION: CpG D oligonucleotide
332 <400> SEQUENCE: 22
333 ggtgcaccgg tgcagggggg 20
336 <210> SEQ ID NO: 23
337 <211> LENGTH: 20
338 <212> TYPE: DNA
339 <213> ORGANISM: Artificial sequence
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342 <223> OTHER INFORMATION: CpG D oligonucleotide
344 <400> SEQUENCE: 23
345 atcgactctc gacggttctc 20
348 <210> SEQ ID NO: 24
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350 <212> TYPE: DNA
351 <213> ORGANISM: Artificial sequence
353 <220> FEATURE:
354 <223> OTHER INFORMATION: CpG D oligonucleotide
356 <400> SEQUENCE: 24

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RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 05/12/2005

PATENT APPLICATION: US/10/533,634

TIME: 09:44:24

Input Set : A:\379604.txt

Output Set: N:\CRF4\05122005\J533634.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 1,2
Seq#:2; N Pos. 1,2
Seq#:3; N Pos. 1,2
Seq#:4; N Pos. 1,2
Seq#:5; N Pos. 1,2
Seq#:6; N Pos. 1,2
Seq#:7; N Pos. 1,2
Seq#:8; N Pos. 1,2
Seq#:44; N Pos. 1,2,3,10,11,12
Seq#:45; N Pos. 1,2,3,10,11,12,13
Seq#:46; N Pos. 1,2,3,10,11,12,13,14
Seq#:47; N Pos. 1,2,3,10,11,12,13,14,15
Seq#:48; N Pos. 1,2,3,10,11,12,13,14,15,16
Seq#:49; N Pos. 1,2,3,10,11,12,13,14,15,16,17
Seq#:50; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18
Seq#:51; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19
Seq#:52; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19,20
Seq#:53; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:54; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19,20,21,22
Seq#:55; N Pos. 1,2,3,10,11,12
Seq#:56; N Pos. 1,2,3,10,11,12,13
Seq#:57; N Pos. 1,2,3,10,11,12,13,14
Seq#:58; N Pos. 1,2,3,10,11,12,13,14,15
Seq#:59; N Pos. 1,2,3,10,11,12,13,14,15,16
Seq#:60; N Pos. 1,2,3,10,11,12,13,14,15,16,17
Seq#:61; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18
Seq#:62; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19
Seq#:63; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19,20
Seq#:64; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:65; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19,20,21,22
Seq#:66; N Pos. 1,2,3,10,11,12
Seq#:67; N Pos. 1,2,3,10,11,12,13
Seq#:68; N Pos. 1,2,3,10,11,12,13,14
Seq#:69; N Pos. 1,2,3,10,11,12,13,14,15
Seq#:70; N Pos. 1,2,3,10,11,12,13,14,15,16
Seq#:71; N Pos. 1,2,3,10,11,12,13,14,15,16,17
Seq#:72; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18
Seq#:73; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19
Seq#:74; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19,20
Seq#:75; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:76; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19,20,21,22
Seq#:77; N Pos. 1,2,3,10,11,12
Seq#:78; N Pos. 1,2,3,10,11,12,13
Seq#:79; N Pos. 1,2,3,10,11,12,13,14

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DATE: 05/12/2005

PATENT APPLICATION: US/10/533,634

TIME: 09:44:24

Input Set : A:\379604.txt

Output Set: N:\CRF4\05122005\J533634.raw

Seq#:80; N Pos. 1,2,3,10,11,12,13,14,15

Seq#:81; N Pos. 1,2,3,10,11,12,13,14,15,16

Seq#:82; N Pos. 1,2,3,10,11,12,13,14,15,16,17

Seq#:83; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18

Seq#:84; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19

Seq#:85; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19,20

Seq#:86; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19,20,21

VERIFICATION SUMMARY

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Input Set : A:\379604.txt

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L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:39 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:93 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:608 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0
L:631 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0
L:654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0
L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
L:700 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0
L:723 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0
L:746 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0
L:769 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0
L:792 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:0
L:815 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:0
L:838 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:0
L:861 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0
L:884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0
L:907 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0
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L:999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:0
L:1022 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0
L:1045 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0
L:1068 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:0
L:1091 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:0
L:1114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:0
L:1137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:0
L:1160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:0
L:1183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:0
L:1206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:0
L:1229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:0
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L:1298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:0
L:1321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:0
L:1344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:0
L:1367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77 after pos.:0
L:1390 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:0
L:1413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:0
L:1436 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:0
L:1459 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:0

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L:1505 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:0
L:1528 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:0
L:1551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:0